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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/068,553	02/06/2002	Susan Cottrell	81836	6966
7590 11/05/2003			EXAMINER	
KRIEGSMAN & KRIEGSMAN			WHISENANT, ETHAN C	
665 Franklin Street Framingham, MA 01702			ART UNIT	PAPER NUMBER
			1634	
			DATE MAILED: 11/05/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/068,553	COTTRELL, SUSAN			
Office Action Summary	Examiner	Art Unit			
	Ethan Whisenant, Ph.D.	1634			
The MAILING DATE of this communication app	pears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, however, may a reply be ly within the statutory minimum of thirty (30) o will apply and will expire SIX (6) MONTHS fro e, cause the application to become ABANDO	timely filed lays will be considered timely. om the mailing date of this communication. NED (35 U.S.C. § 133).			
1) Responsive to communication(s) filed on 24.	July 2002 .				
2a) ☐ This action is FINAL . 2b) ☑ Th	nis action is non-final.				
3) Since this application is in condition for allow closed in accordance with the practice under Disposition of Claims					
4) Claim(s) 1-25 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>1-17,19-21</u> is/are allowed.					
6)⊠ Claim(s) <u>18 and 22-25</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	or election requirement.				
9) The specification is objected to by the Examiner.					
10) \boxtimes The drawing(s) filed on <u>06 February 2002</u> is/are: a) \boxtimes accepted or b) \square objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)☐ The proposed drawing correction filed on		proved by the Examiner.			
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Ex	xamıner.				
Priority und r 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. § 119	(a)-(d) or (f).			
a) All b) Some * c) None of:	to have been received				
1. Certified copies of the priority document		otion No			
2. Certified copies of the priority document	• •				
 3. Copies of the certified copies of the prior application from the International But * See the attached detailed Office action for a list 	ureau (PCT Rule 17.2(a)).	•			
14) Acknowledgment is made of a claim for domest	tic priority under 35 U.S.C. § 119	9(e) (to a provisional application).			
a) The translation of the foreign language pro					
Attachment(s)					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 		ary (PTO-413) Paper No(s) al Patent Application (PTO-152)			

Non-Final Action

1. The applicant's Preliminary Amendment filed 24 JUL 02 has been entered. Following the entry of the Preliminary Amendment, Claim(s) 1-25 is/are pending.

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SEQUENCE RULES

2. This application complies with the sequence rules and the sequences have been entered by the Scientific and Technical Information Center.

35 USC § 101

3. 35 U.S.C. § 101 reads as follows:

"Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter or any new and useful improvement thereof, may obtain a patent therefore, subject to the conditions and requirements of this title".

Claim Rejections - 35 USC § 101

4. Claim(s) 24 is/are rejected under 35 U.S.C. § 101 because the claimed invention is directed to non-statutory subject matter. Claim 24 is nonstatutory because "the use of" is not a patentable category under 35 U.S.C. § 101.

35 USC § 112- 2ND PARAGRAPH

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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CLAIM REJECTIONS under 35 USC § 112- 2ND PARAGRAPH

6. Claim(s) 18, 22-23 is/are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 18 is unclear because of the phrase "that a melting curve is generated at the end of the PCR to gather additional data." It is unclear what is intended. Please clarify.

Claim(s) 22 and 23 is/are indefinite because of the use of the word "whereby" instead of "wherein". Please clarify.

Claim 23 is also unclear because of the use of the phrase "e.g. cell lines, blood ,...". The use of exemplary claim language makes these claims indefinite. See the MPEP at 2173.05(d).

It is well established that the description of examples or preferences is properly set forth in the specification rather than the claims. If stated in the claims, examples and preferences lead to confusion over the intended scope of a claim. Ex parte Hall, 83 USPQ 38 (Bd. App. 1949).

35 USC § 103

- **7.** The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

CLAIM REJECTIONS UNDER 35 USC § 103

8. Claim(s) 25 is/are rejected under 35 U.S.C. 103(a) as being unpatentable over Gonzalgo et al. (1997) in view of the Stratagene Catalog (1989).

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Claim 25 is drawn to a kit comprising three components: To begin, the kit is to comprise reagents for the selective deamination of cytosine bases in gernomic DNA. Next, the kit is to comprise one or more primers and labeled nucleotides. Finally, the kit is to comprise a detectable probe.

Gonzalgo et al. teach a method termed methylation-sensitive single nucleotide primer extension (i.e. Ms-SnuPE) which utilizes reagents for the selective deamination of cytosine bases in genomic DNA (i.e. sodium bisulfite). In addition, the method of Gonzalgo et al. utilizes one or more primers (i.e. the primers used in the PCR step), labeled nucleotides (i.e. the ³²P-labeled nucleotides used during the primer extension step) and a detectable probe (i.e. the primer used during the primer extension step). Admittedly, Gonzalgo et al. do not teach a kit comprising the reagents necessary to perform their method. However, as evidenced by the Stratagene Catalog teaching, it was well known at the time of the invention to place the reagents needed to perform a nucleic acid based assay into a kit format. Therefore, absent an unexpected result, it would have been prima facie obvious to the ordinary artisan at the time of the invention to modify the teachings of Gonzalgo et al. with the teachings of the Stratagene Catalog wherein the reagents necessary to perform the method suggested by Gonzalgo et al. are placed into a kit format. The ordinary artisan would have been motivated to make this modification in order to take advantage of the savings and efficiency afforded by kits. Note that a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. In re Casey, 152 USPQ 235 (CCPA 1967); In re Otto, 136 USPQ 458, 459 (CCPA 1963).

Conclusion

- **9.** Claim(s) 1-17, 19-21 is/are allowable while Claim(s) 18, and 22-25 is/are rejected and/or objected to for the reason(s) set forth above.
- **10.** Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ethan Whisenant, Ph.D. whose telephone number is (703) 308-6567. The examiner can normally be reached Monday-Friday from 8:30AM -5:30PM EST or any time via voice mail. If repeated attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, W. Gary Jones, can be reached at (703) 308-1152.

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The fax number for this Examiner is (703) 746-8465. Before faxing any papers please inform the examiner to avoid lost papers. Please note that the faxing of papers must conform with the Notice to Comply published in the Official Gazette, 1096 OG 30 (November 15, 1989). Any inquiry of a general nature or relating to the status of this application should be directed to the group receptionist whose telephone number is (703) 308-0196.

ETHAN WHISENANT PRIMARY EXAMINER